

U.S. 40 ALT IS ASSUMED TO RUN IN AN EAST-WEST DIRECTION

#### PROPOSED SIGNALS

1,2,3,4,5,6  
R  
Y  
G  
12"

7,8  
16" LED COUNTDOWN PEDESTRIAN SIGNAL

a,b,c  
PROPOSED VIDEO DETECTION  
VIDEO DETECTION ZONE  
A

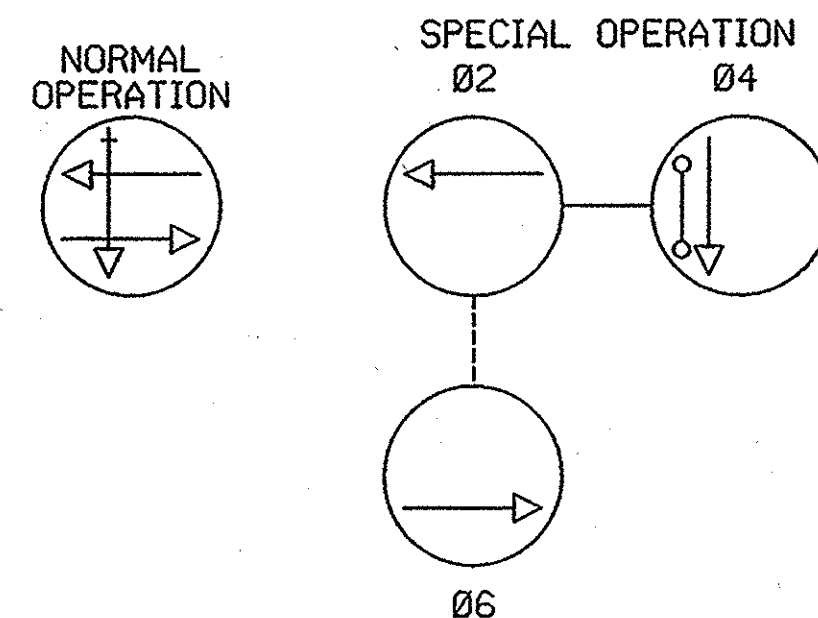
#### PROPOSED SIGNS

9,10  
S1-1 BLK/FYG (36" x 42")

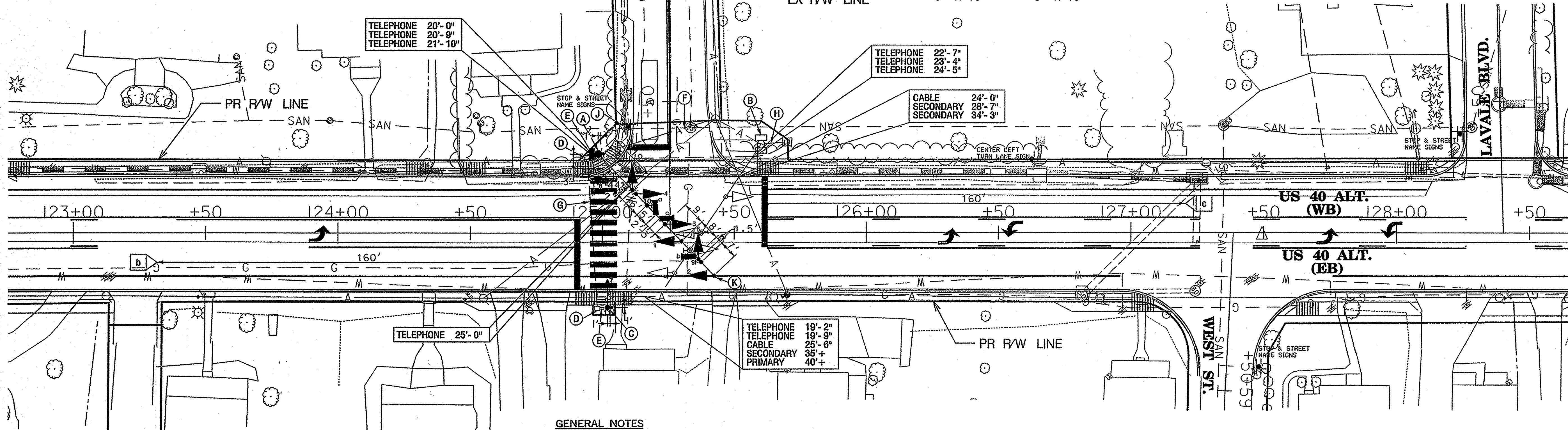
11  
R10-3(1) 9" x 15"

12  
R10-3(1) 9" x 15"

#### NEMA PHASING



NOTE: PHASES ASSOCIATED BY A DASHED LINE WILL OPERATE CONCURRENTLY. PHASES ASSOCIATED BY A SOLID LINE WILL NOT OPERATE CONCURRENTLY.



#### CONSTRUCTION DETAILS

- INSTALL CONCRETE FOUNDATION WITH A 16.5 FT. (15'-0" T) STEEL POLE WITH A 70 FT. (CUT TO 65 FT.) MAST ARM, 3 FT. X 4 FT. X 4 IN. CONCRETE PAD, POLE MOUNTED CABINET AND CONTROLLER, ELECTRICAL UTILITY SERVICE EQUIPMENT (120/240 V, 60 AMPS), CLEVIS AND 1 INCH GALVANIZED RISER FOR PROPOSED TELEPHONE SERVICE, TRAFFIC SIGNAL HEADS, SIGNS, VIDEO DETECTION CAMERA MOUNTED ON MAST ARM, AND COUNTDOWN PEDESTRIAN SIGNAL HEAD, AUDIBLE/TACTILE PEDESTRIAN PUSHBUTTON INSTALLED WITH VIBRATING ARROW POINTING LEFT AND R10-3(1) SIGN (SIGN TO READ "PUSH BUTTON TO CROSS NATIONAL HIGHWAY"). (INSTALL 2-3 IN. SCHEDULE 80, 90 DEGREE PVC ELECTRICAL CONDUIT BENDS IN POLE BASE).
- REMOVE EXISTING STEEL POLE, MAST ARM, ALL ASSOCIATED EQUIPMENT AND FOUNDATION 12 IN. BELOW GRADE AND BACKFILL. SHA SIGNAL SHOP SHALL BE NOTIFIED TO REMOVE THE CONTROLLER AND ALL AUXILIARY EQUIPMENT FROM THE CABINET.
- INSTALL CONCRETE FOUNDATION WITH 10 FT. STEEL PEDESTAL POLE WITH BREAKAWAY BASE, COUNTDOWN PEDESTRIAN SIGNAL HEAD, AUDIBLE/TACTILE PEDESTRIAN PUSHBUTTON INSTALLED WITH VIBRATING ARROW POINTING RIGHT, R10-3(1) SIGN. (SIGN TO READ "PUSH BUTTON TO CROSS NATIONAL HIGHWAY"). (INSTALL 1-3 IN. SCHEDULE 80, 90 DEGREE PVC ELECTRICAL CONDUIT BEND IN PEDESTAL BASE).
- USE EXISTING HANDHOLE.
- INSTALL 3 IN. PVC SCHEDULE 80 ELECTRICAL CONDUIT - TRENCHED.
- PROPOSED OVERHEAD ELECTRICAL AND TELEPHONE SERVICE.
- USE EXISTING CONDUIT.
- CAP AND ABANDON EXISTING CONDUIT
- REMOVE EXISTING R1-1 "STOP" SIGN FROM EXISTING SUPPORT.
- CUT, CLEAN, GALVANIZE AND CAP TRAFFIC SIGNAL STRUCTURE.

#### GENERAL NOTES

- ALL TRAFFIC SIGNAL FOUNDATIONS SHALL BE INSTALLED AT THE FINAL SIDEWALK OR CURB GRADE FOR CLOSED SECTIONS. HIGHEST ROADWAY PROFILE GRADE FOR OPEN SECTIONS, TO MEET CLEARANCES AS SPECIFIED IN MD 816.03, MD 818.01, MD 818.02, MD 818.04. THE CONTRACTOR SHALL VERIFY ULTIMATE GRADES PRIOR TO THE INSTALLATION OF ALL SIGNAL EQUIPMENT.
- THE CONTRACTOR SHALL VERIFY ALL UNDERGROUND UTILITIES PRIOR TO INSTALLING PROPOSED SIGNAL EQUIPMENT. IF ANY UTILITY CONFLICTS SHOULD ARISE THE CONTRACTOR SHALL CONTACT THE PROJECT ENGINEER.
- VIDEO CAMERA LOCATION / ALIGNING SHALL BE COORDINATED WITH THE SHA ENGINEER.
- THE CONTRACTOR SHALL VERIFY ALL PROPOSED POLE AND CABINET LOCATIONS PRIOR TO INSTALLATION.
- ALL EXISTING TRAFFIC SIGNAL EQUIPMENT REMOVED SHALL BECOME THE PROPERTY OF THE SIGNAL CONTRACTOR UPON COMPLETION OF THE NEW SIGNAL.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR TERMINATING ALL SIGNAL CABLE TO THE APPROPRIATE TERMINALS AND PROPERLY LABEL EACH CABLE.
- THE CONTRACTOR SHALL NOT CUT MAST ARM AS INDICATED ON PLANS UNTIL MAST ARM POLE LOCATION IS FINALIZED.
- PUSHBUTTONS ARE TO BE LOCATED SO THAT THEY CAN BE ACTIVATED BY A PERSON IN A WHEELCHAIR FROM A 60"x60" LEVEL LANDING AREA. A LEVEL LANDING AREA IS AN AREA WITH A CROSS SLOPE OF LESS THAN OR EQUAL TO 2%.
- PUSHBUTTON IS TO BE LOCATED SO THAT A PEDESTRIAN IN A WHEELCHAIR LOCATED ON THE LEVEL LANDING AREA, DOES NOT HAVE TO REACH MORE THAN 18 IN.
- THE 10' SEPARATION BETWEEN PUSHBUTTONS IS TO BE MEASURED FROM FACE OF PUSHBUTTON TO FACE OF PUSHBUTTON, NOT CENTER TO CENTER OF POLE.
- PUSHBUTTON ARROWS ARE TO BE PARALLEL TO THE CROSSING FOR WHICH THEY ARE INTENDED.
- LOCATION OF ACCESSIBLE PEDESTRIAN SIGNAL PUSHBUTTONS MUST MEET LOCATION REQUIREMENTS OF MUTCD SEC. 4E.09 AND FIG. 4E-02 AND THE LATEST EDITION OF THE NCHRP PUBLICATION, "ACCESSIBLE PEDESTRIAN SIGNALS: GUIDE TO BEST PRACTICE." IF NOT MET, THE CONTRACTOR IS TO STOP WORK UNTIL THE CONFLICT IS RESOLVED. IF NECESSARY, A WAIVER SHALL BE OBTAINED, SIGNED BY THE DIRECTOR, OFFICE OF TRAFFIC AND SAFETY.
- INSTALL CONDUIT PRIOR TO THE INSTALLATION OF PAVEMENT MARKINGS. REFER TO SIGNING AND PAVEMENT MARKING PLANS FOR ADDITIONAL DETAILS.
- FOR FINAL PAVEMENT MARKINGS REFER TO THE PAVEMENT MARKING PLANS, OTHER THAN THOSE DETAILED ON THE PLAN. ALL PAVEMENT MARKINGS SHALL BE INSTALLED IN ACCORDANCE WITH MSHA STANDARDS.
- ALL HANDHOLES SHALL BE INSTALLED AT FINAL GRADE.

#### SPECIAL NOTES:

- THE CONTRACTOR SHALL NOT BLOCK VIEW OF EXISTING SIGNAL INDICATIONS DURING INSTALLATION OF MAST ARM. IF NEW MAST ARM CANNOT BE INSTALLED DUE TO CONFLICT WITH EXISTING SIGNAL INDICATIONS OR MAST ARM, A SIGNAL OUTAGE SHALL OCCUR DURING NON-PEAK HOURS AS DIRECTED BY THE ENGINEER.
- CONTRACTOR SHALL USE CAUTION WHEN INSTALLING SIGNAL EQUIPMENT TO AVOID DISTURBANCE OF EXISTING UNDERGROUND UTILITIES. CONTRACTOR SHALL TEST PIT TO DETERMINE EXACT LOCATION AND DEPTH OF UNDERGROUND UTILITIES PRIOR TO INSTALLING SIGNAL EQUIPMENT.

TOD NO: AX142-16  
SHA NO: AL881B51  
US 40A@PARKSIDE BLVD

SHA

STATE OF MARYLAND  
DEPARTMENT OF TRANSPORTATION  
STATE HIGHWAY ADMINISTRATION  
OFFICE OF TRAFFIC & SAFETY  
TRAFFIC ENGINEERING DESIGN DIVISION  
US 40 ALT. @ PARKSIDE BLVD.



#### GEOMETRIC LEGEND

EXISTING  
PROPOSED

#### UTILITY LEGEND

SD - STORM DRAIN  
G - GAS MAIN  
W - WATER MAIN  
S - SEWER MAIN  
E - ELECTRIC CABLES  
A - AERIAL CABLES  
T - TELEPHONE CABLES  
F - FIBER-OPTIC

WR&A

Whitman, Reardon and Associates, LLP  
Engineers, Architects and Planners

801 South Caroline Street  
Baltimore, Maryland 21231  
410-235-3450

APPROVALS	REVISIONS
TEAM LEADER	C. INSTALL PART-TIME SIGNAL AND APS 02/2008 (SHA NO.: AX1425185)
ASST. DIR. CHIEF	JHR NML 1/10/08 1/28/08
DIVISION CHIEF	REPLACE LOOP DETECTION DUE TO RESURFACING 02/2003 (SHA NO.: AL4015177)
OFFICE DIRECTOR	REPLACE EXISTING SIGNAL HEADS, ADD A STROBE TO RED INDICATION AND UPGRADE SCHOOL SIGNS TO FYC 06/2001 (SHA NO. 0T 2000)
	BVD DAZ BRK TH

TRAFFIC SIGNALIZATION PLAN			
SCALE 1" = 20'	DATE MARCH 2008	CONTRACT NO.	AX1425185
DESIGNED BY	YLT	COUNTY	ALLEGANY
DRAWN BY	YLT	LOGMILE	0140AL07.90
CHECKED BY	RJM	TMS NO.	J032
F.A.P. NO.	SEE TITLE SHEET	TOD NO.	
TS NO. 412 A	DRAWING TSP-01 OF 2	SHEET NO.	1 OF 2

PLOTTED: 04-14-2008  
FILE: n:\41425185\p001\ax1425185\_parkside\p001\_US40alt.dgn